# Management of Contaminated Sediments

## A Superfund Perspective


Larry Reed, Acting Director

Office of Emergency and Remedial Response

# Background

- Congress requests National Research Council report on contaminated sediments
  - March 26, 2001 – A Risk-Management Strategy for PCB-Contaminated Sediments
  - 11 major recommendations
- Integrate into ongoing activities on contaminated sediments

# Superfund Remedy Selection is Based On 9 Criteria

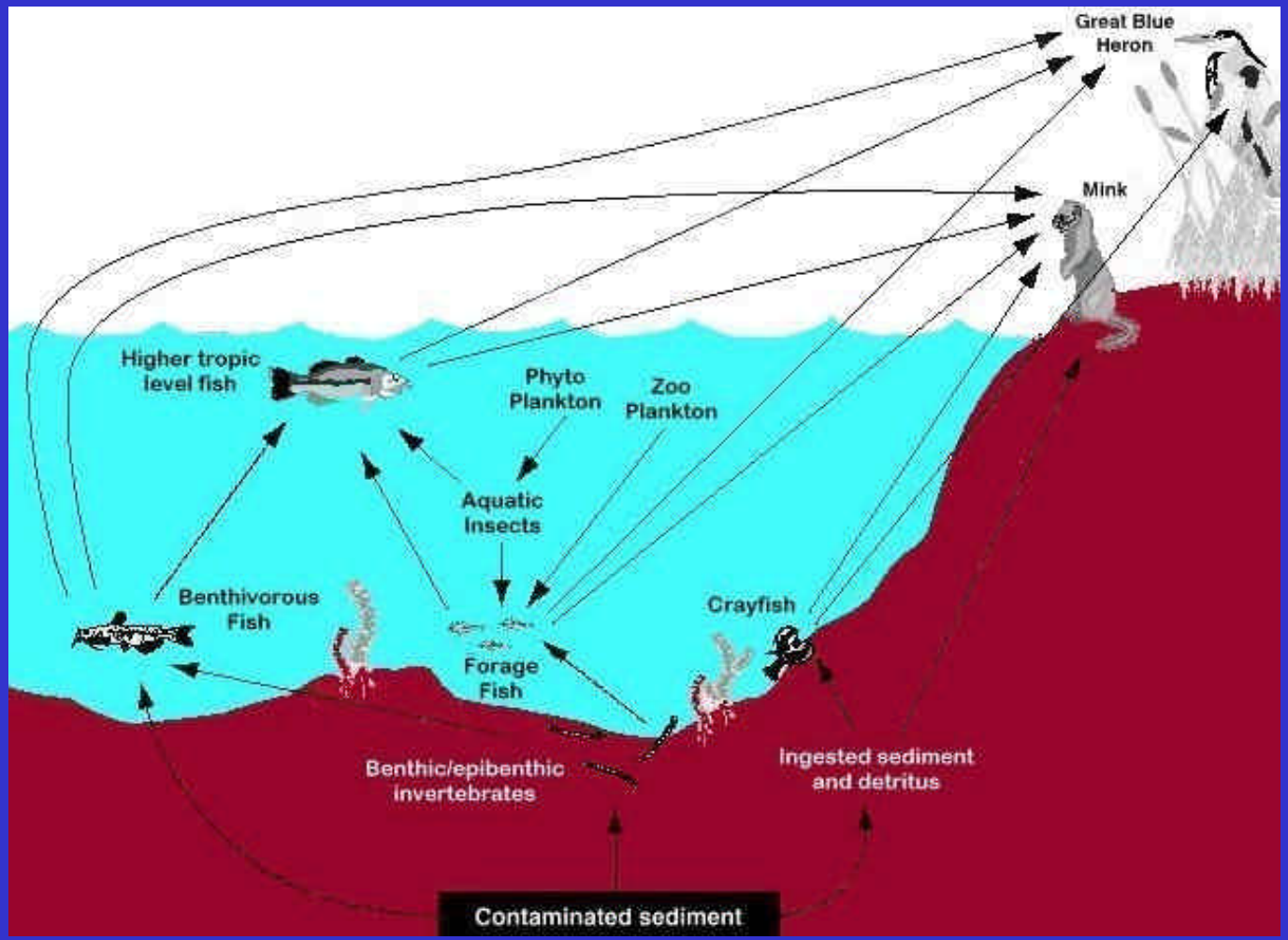
- Overall protection of human health and the environment
- Compliance with Applicable or Relevant and Appropriate Requirements (ARARs)
- Long-term effectiveness and permanence
- Reduction of toxicity, mobility, or volume through treatment
- Short-term effectiveness
- Implementability
- Cost
- Community Acceptance
- State Acceptance

# All sources should be controlled first

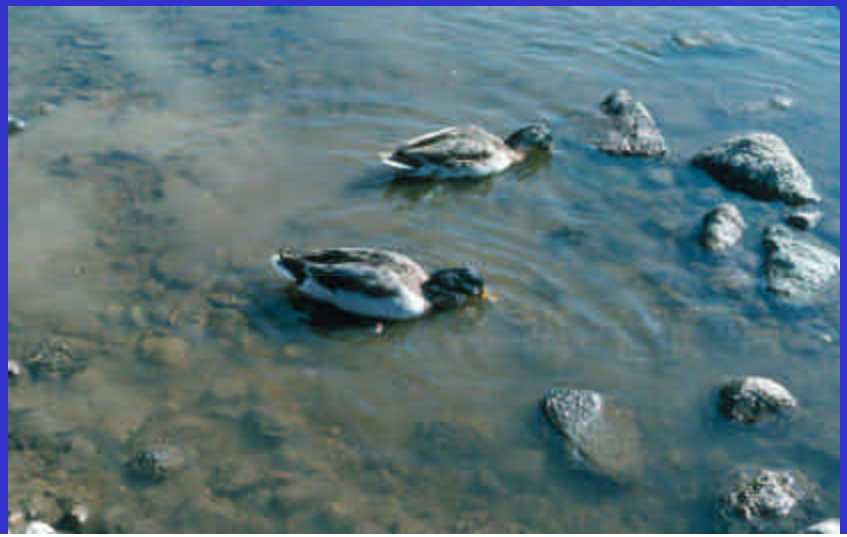
# The public should be consulted early and often

# Coordination with states, tribes, trustees, other EPA programs should occur early and often

# A complete Site Conceptual Model is critical

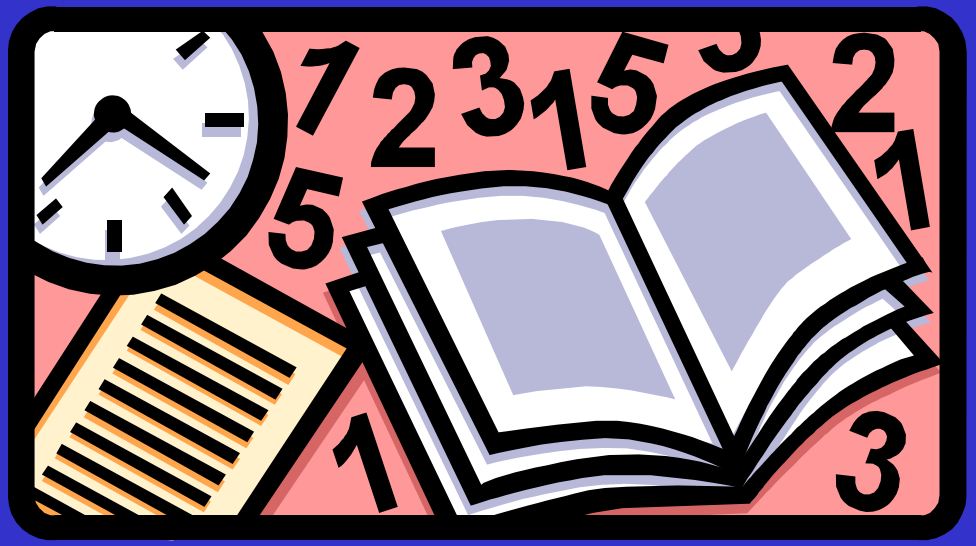


# Understanding the effects of disruptive forces on sediment stability is very important



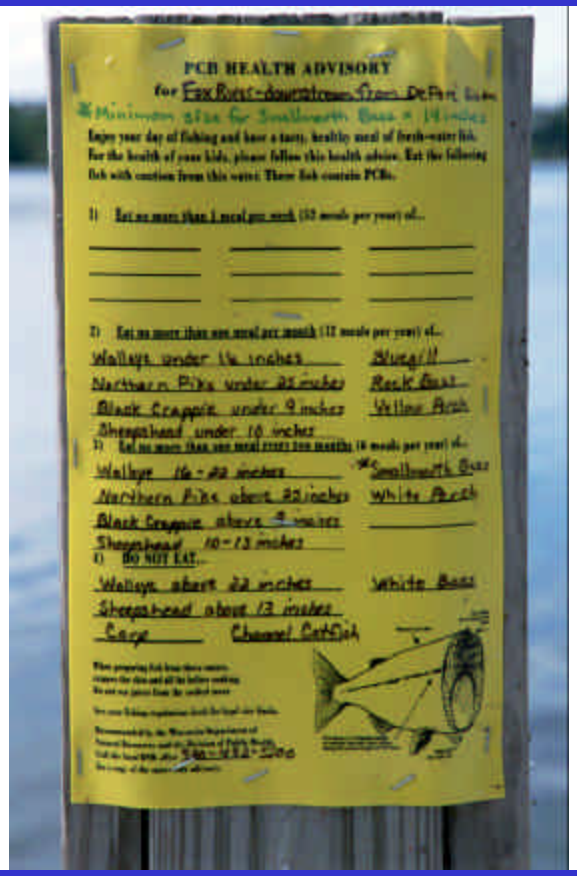
There should be no presumptive remedy for contaminated sediment sites.

Each sediment site is unique and Superfund remedy selection must be performed on a site-specific basis.



When models are used, their assumptions and uncertainties should be evaluated

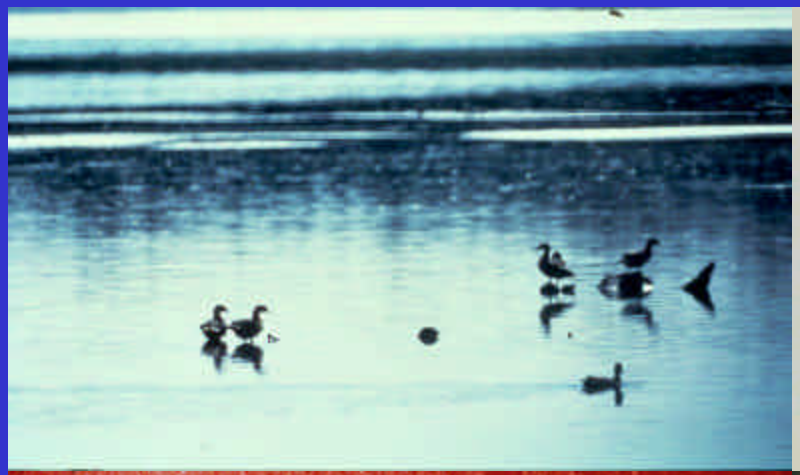
# Fish consumption advisories may be only partially effective

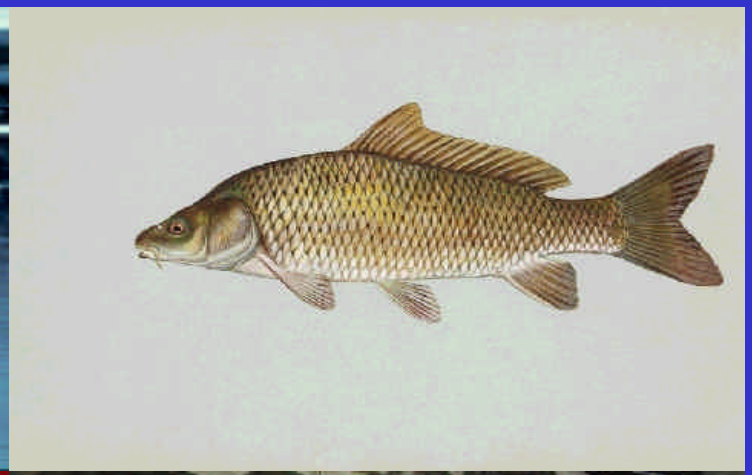


# Risk assessments should evaluate both short-term and long-term risks, within the context of the 9 NCP criteria

- Dredging and capping will disrupt habitats locally and may require significant construction projects
- Use of NMR may not provide short-term alleviation of threats
- The long-term benefits achieved by the removal of highly mobile PBTs from a sensitive and dynamic environment should be considered along with the short-term effects.

# Cleanup levels should be clearly tied to the broader objectives for the site





# Monitoring is necessary before, during, and after sediment remediation

# Next Steps

- Over the next few days, we hope to receive your input on:
  - Key issues
    - Community Involvement
    - Risk Assessment
    - Site Characterization
    - Remedy Effectiveness
    - Risk Management Frameworks
  - Next steps for EPA